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filing date of this application. This deposit of the Inbred Maize Line PH3PV will be maintained in the ATCC depository, which is a public depository, for a period of 30 years, or 5 years after the most recent request, or for the effective life of the patent, whichever is longer, and will be replaced if it becomes nonviable during that period. Additionally, Applicant has satisfied all the requirements of 37 C.F.R. §§1.801 - 1.809, including providing an indication of the viability of the sample. Applicant imposes no restrictions on the availability of the deposited material from the ATCC; however, Applicant has no authority to waive any restrictions imposed by law on the transfer of biological material or its transportation in commerce. Applicant does not waive any infringement of his rights granted under this patent or under the Plant Variety Protection Act (7 USC 2321 et seq.). U.S. Plant Variety Protection of Inbred Maize Line PH3PV has been applied for under Application No. 200100251.

IN THE CLAIMS

Please cancel ~~claims 45 and 46.~~

Please amend claims 1, 3, 4, 5, 6, 8, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 30, 31, 32, 33, 35, 36, 37, 40, 41, 42, 43, 47, 48, and 49.

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1. (Amended) Seed of maize inbred line designated PH3PV, representative seed of said line having been deposited under ATCC Accession No. PTA-4580.

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3. (Amended) The maize plant of claim 2, wherein said plant is manipulated to be male sterile.

5. (Amended) A tissue culture of cells from the plant of claim 2.

5. (Amended) A tissue culture according to claim 4, cells or protoplasts of the tissue culture being from a tissue selected from the group consisting

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of leaves, pollen, embryos, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.

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6.(Amended) A maize plant regenerated from the tissue culture of claim 4, capable of expressing all the morphological and physiological characteristics of inbred line PH3PV, representative seed of which have been deposited under ATCC Accession No. PTA-4580.

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8. (Amended) The method of claim 7 wherein said different inbred parent maize plant is the male parent.

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11. (Amended) The maize plant, or parts thereof, of claim 2, wherein the plant, or parts thereof, further comprise one or more transgenes.

12. (Amended) A method for producing a maize plant comprising crossing the maize plant of claim 11 with a second plant of another maize line.

13. (Amended) The maize plant, or parts thereof, produced by the method of claim 12.

14. (Amended) A maize plant, or parts thereof, wherein at least one ancestor of said maize plant is the maize plant of claim 2, said maize plant expressing a combination of at least two PH3PV traits which are not significantly different from PH3PV traits when determined at the 5% significance level and when grown in the same environmental conditions, said PH3PV traits selected from the group consisting of: a relative maturity of 85 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, yield, flowering time, dry down, stalk lodging resistance, root lodging resistance, and test weight of grain.

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16. (Amended) The method of claim 15 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.

17. (Amended) A maize plant, or parts thereof, produced by the method of claim 15 wherein the method comprises 2 or less crosses to a plant other than PH3PV or a plant that has PH3PV as a progenitor.

18. (Amended) The maize plant, or parts thereof, of claim 2, further comprising one or more single gene conversions.

19. (Amended) The maize plant of claim 18, wherein at least one single gene conversion is a dominant allele.

20. (Amended) The maize plant of claim 18, wherein at least one single gene conversion is a recessive allele.

21. (Amended) A maize plant, or parts thereof, having all the physiological and morphological characteristics of inbred line PH3PV, representative seed of said line having been deposited under ATCC Accession No. PTA-4580.

22. (Amended) The maize plant of claim 21, wherein said plant is manipulated to be male sterile.

23. (Amended) A tissue culture of cells from the plant of claim 21.

24. (Amended) A tissue culture according to claim 23, cells or protoplasts of the tissue culture being from a tissue selected from the group

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consisting of leaves, pollen, embryos, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.

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25. (Amended) A maize plant regenerated from the tissue culture of claim 23, capable of expressing all the morphological and physiological characteristics of inbred line PH3PV, representative seed of which have been deposited under ATCC Accession No. PTA-4580.

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27. (Amended) The method of claim 26 wherein said different inbred parent maize plant is the female parent.

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~~30. (Amended) The maize plant, or parts thereof, of claim 21, wherein the plant, or parts thereof, further comprises one or more transgenes, and wherein the maize plant, or parts thereof, are essentially unchanged from the corresponding plant, or parts thereof, of inbred line PH3PV.~~

31. (Amended) A method for producing a maize plant comprising crossing the maize plant of claim 30 with a second plant of another maize line.

32. (Amended) The maize plant, or parts thereof, produced by the method of claim 31.

33. (Amended) A PH3PV-derived maize plant, or parts thereof, wherein at least one ancestor of said maize plant is the maize plant of claim 2, and wherein the pedigree of said maize plant is within 2 or less crosses to a plant other than PH3PV or a plant that has PH3PV as a progenitor.

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~~34. (Amended) The method of claim 34 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length~~

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polymorphism enhanced selection, genetic marker enhanced selection, and transformation.

36. (Amended) A maize plant, or parts thereof, produced by the method of claim 34 wherein the method comprises 2 or less crosses to a plant other than PH3PV or a plant that has PH3PV as a progenitor.

37. (Amended) A process for producing inbred PH3PV, representative seed of which have been deposited under ATCC Accession No. PTA-4580, comprising:

- (a) planting a collection of seed comprising seed of a hybrid, one of whose parents is inbred PH3PV said collection also comprising seed of said inbred;
- (b) growing plants from said collection of seed;
- (c) identifying said inbred PH3PV plants;
- (d) selecting said inbred PH3PV plant; and
- (e) controlling pollination in a manner which preserves the homozygosity of said inbred PH3PV plant.

40. (Amended) A method for producing a PH3PV-derived maize plant, comprising:

- (a) crossing inbred maize line PH3PV, representative seed of said line having been deposited under ATCC Accession No. PTA-4580, with a second maize plant to yield progeny maize seed;
- (b) growing said progeny maize seed, under plant growth conditions, to yield said PH3PV-derived maize plant.

41. (Amended) A PH3PV-derived maize plant, or parts thereof, produced by the method of claim 40.

42. (Amended) The method of claim 40, further comprising:

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- (c) selfing or sibbing said PH3PV-derived maize plant to yield additional PH3PV-derived progeny maize seed;
- (d) growing said progeny maize seed of step (c) under plant growth conditions, to yield additional PH3PV-derived maize plants;
- (e) repeating the crossing and growing steps of (c) and (d) to generate further PH3PV-derived maize plants.

43. (Amended) The further PH3PV-derived maize plants, or parts thereof, produced by the method of claim 42.

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47. (Amended) The maize plant, or parts thereof, of claim 21, further comprising one or more single gene conversions, wherein the maize plant, or parts thereof, are essentially unchanged from the corresponding plant, or parts thereof, of inbred line PH3PV.

48. (Amended) The maize plant of claim 47, wherein at least one single gene conversion is a dominant allele.

49. (Amended) The maize plant of claim 47, wherein at least one single gene conversion is a recessive allele.